

WHAT IS CLAIMED IS:

1. A method for adjusting a switch frequency of a burst mode for a liquid crystal display, comprising the steps of:

(a) receiving a scan frequency value from a signal source;

5 (b) deriving a switch frequency value of the burst mode according to the scan frequency value; and

(c) transmitting the switch frequency value to a lamp controller.

10 2. The method according to Claim 1, wherein at step (b), the switch frequency value of the burst mode is derived by a calculating method according to the scan frequency value.

3. The method according to Claim 2, wherein the switch frequency value of the burst mode equals a scan frequency value multiplied by a multiple ($N+0.5$), wherein N is a positive number.

15 4. The method according to Claim 3, wherein a tolerable range of the switch frequency value of the burst mode is $\pm 20\text{Hz}$.

5. The method according to Claim 2, wherein the switch frequency value of the burst mode equals a scan frequency value multiplied by a positive number.

20 6. The method according to Claim 5, wherein a tolerable range of the switch frequency value of the burst mode is $\pm 3\text{Hz}$.

7. The method according to Claim 1, wherein at step (b), the switch frequency value of the burst mode is derived by looking up a table according to the scan frequency value.

25 8. A switch frequency adjusting system for a burst mode of a liquid crystal display, comprising:

a receiver for receiving a scan frequency value from a signal source;

an adjuster electrically connected to the receiver, for deriving a switch frequency value of the burst mode according to the scan frequency value; and

5 a transmitter electrically connected to the adjuster, for transmitting the switch frequency value to a lamp controller.

9. The switch frequency adjusting system according to Claim 8, wherein the adjuster comprises a frequency multiplier for deriving the 10 switch frequency value.

10. The switch frequency adjusting system according to Claim 9, wherein the switch frequency value equals a scan frequency value multiplied by a multiple ($N + 0.5$), wherein N is a positive number.

11. The switch frequency adjusting system according to Claim 10, 15 wherein a tolerable range of the switch frequency value of the burst mode is ± 20 Hz.

12. The switch frequency adjusting system according to Claim 9, wherein the switch frequency value equals a scan frequency value multiplied by a positive number.

20 13. The switch frequency adjusting system according to Claim 12, wherein a tolerable range of the switch frequency value of the burst mode is ± 3 Hz.

25 14. The switch frequency adjusting system according to Claim 8, wherein the adjuster comprises a frequency demultiplier for deriving the switch frequency value.

15. The switch frequency adjusting system according to Claim 14,

multiplied by a multiple ($N + 0.5$), wherein N is a positive number.

16. The switch frequency adjusting system according to Claim 15, wherein a tolerable range of the switch frequency value of the burst mode is ± 20 Hz.

5 17. The switch frequency adjusting system according to Claim 14, wherein the switch frequency value equals the scan frequency value multiplied by a positive number.

10 18. The switch frequency adjusting system according to Claim 17, wherein a tolerable range of the switch frequency value of the burst mode is ± 3 Hz.

19. The switch frequency adjusting system according to Claim 8, wherein the adjuster comprises a database for storing a plurality of switch frequency values corresponding to various scan frequency values.